

S50

HIGHLY-RESISTANT POST BASE

MIGHTY

Characteristic compression strength of more than 300 kN. Ideal for large columns.

RAISED

It ensures spacing from the ground to avoid water splashing or stagnation and provides high durability. Hot-dip galvanisation ensures durability in outdoor contexts.

ATTENTION TO DETAILS

The base features four auxiliary holes for inserting screws using a long bit.



USA, Canada and more design values available online.



VIDEO

CE
ETA-10/0422

SERVICE CLASS

SC1

SC2

SC3

MATERIAL

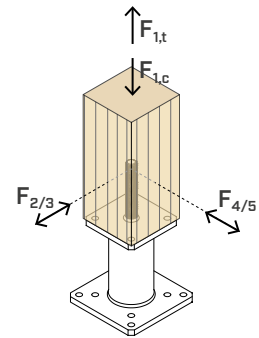
S235
HD655

S235 carbon steel with hot galvanising
55 µm

GROUND CLEARANCE

from 144 to 272 mm

EXTERNAL LOADS



VIDEO

Scan the QR Code and watch the video on our YouTube channel



FIELDS OF USE

Ground joints for compressed columns.
Canopies, columns supporting roofs or floors.

Suitable for columns in:

- solid timber softwood and hardwood
- glulam, LVL



HEAVY STRUCTURES

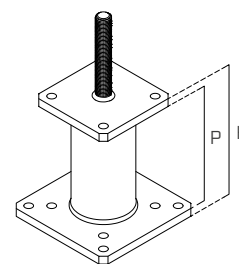
Ideal for transferring high compression forces deriving from large columns. Excellent durability of the column thanks to the tubular that generates the riser.

TOLERANCE

The height can be adjusted with a nut and lock nut system, adding bedding grout after installation.

CODES AND DIMENSIONS

CODE	H [mm] [in]	P [mm] [in]	top plate [mm] [in]	top holes [n. x mm] [n. x in]	bottom plate [mm] [in]	lower holes [n. x mm] [n. x in]	rod Ø x L [mm] [in]	pcs
S50120120	144 5 11/16	120 4 3/4	120 x 120 x 12 4 3/4 x 4 3/4 x 0.47	4 x Ø12 4 x Ø0.47	160 x 160 x 12 6 1/4 x 6 1/4 x 0.47	4 x Ø13 4 x Ø0.51	M20 x 120 0.79 x 4 3/4	1
S50120180	204 8 1/16	180 7 1/8	120 x 120 x 12 4 3/4 x 4 3/4 x 0.47	4 x Ø12 4 x Ø0.47	160 x 160 x 12 6 1/4 x 6 1/4 x 0.47	4 x Ø13 4 x Ø0.51	M20 x 120 0.79 x 4 3/4	1
S50160180	212 8 3/8	180 7 1/8	160 x 160 x 16 6 1/4 x 6 1/4 x 0.63	4 x Ø12 4 x Ø0.47	200 x 200 x 16 8 x 8 x 0.63	4 x Ø13 4 x Ø0.51	M24 x 150 0.79 x 6	1
S50160240	272 10 11/16	240 9 1/2	160 x 160 x 16 6 1/4 x 6 1/4 x 0.63	4 x Ø12 4 x Ø0.47	200 x 200 x 16 8 x 8 x 0.63	4 x Ø13 4 x Ø0.51	M24 x 150 0.79 x 6	1



FASTENERS

HBS PLATE EVO - C4 EVO pan head screw

CODE	d ₁ [mm]	L [mm]	b [mm]	TX	pcs
HBSPLEVO880	8	80	55	TX 40	100

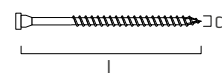
VGS EVO - C4 EVO fully threaded screw with countersunk head

CODE	d ₁ [mm]	L [mm]	b [mm]	TX	pcs
VGSEVO11100	11	100	90	TX 50	25

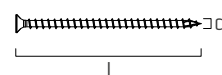
HUS A4 - C4 EVO turned washer

CODE	d _{VGS EVO} [mm]	pcs
HUS10A4	11	50

C4
EVO
COATING



C4
EVO
COATING



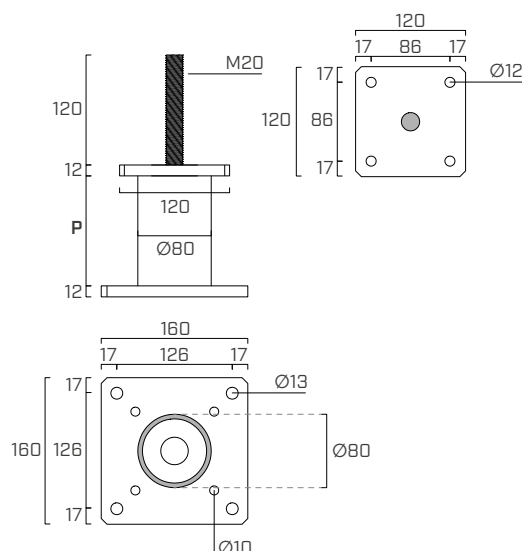
A4
AISI 316



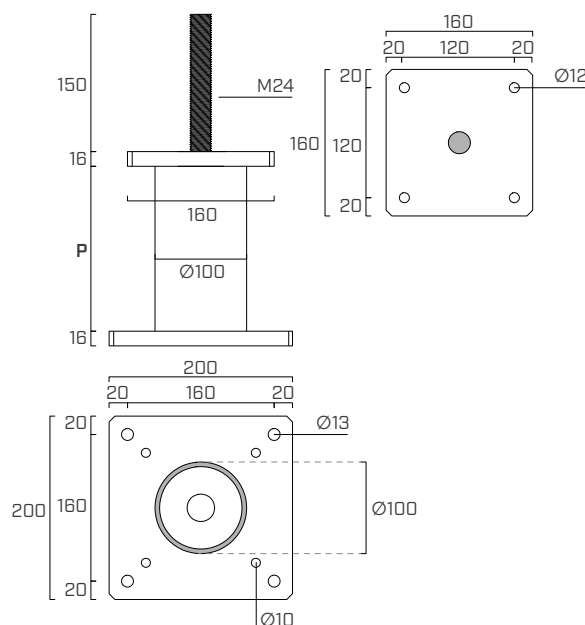
type	description		d [mm]	support	page
HBS PLATE EVO	C4 EVO pan head screw		8		573
SKR/SKR EVO	screw-in anchor		12		528
AB1	CE1 expansion anchor		12		536
ABE A4	CE1 expansion anchor		M12		534
VIN-FIX	vinyl ester chemical anchor		M12		545

GEOMETRY

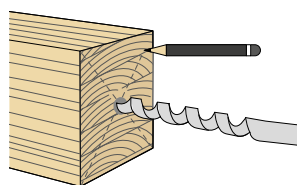
S50120120
S50120180



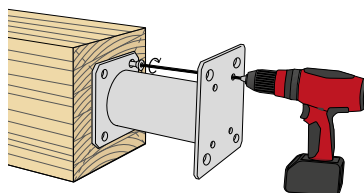
S50160180
S50160240



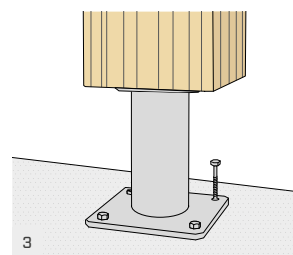
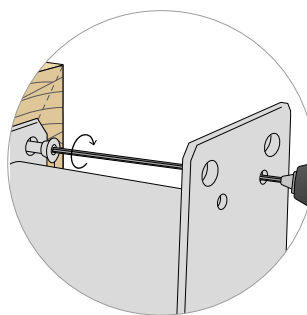
MOUNTING



1

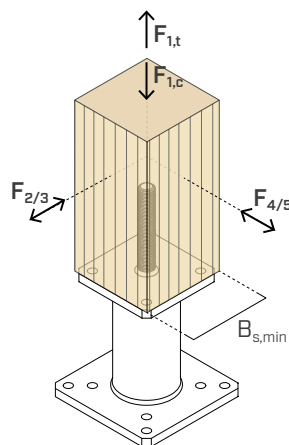


2



3

STRUCTURAL VALUES



COMPRESSION

CODE	$B_{s,min}$ [mm]	$R_{1,c}$ k timber		$R_{1,c}$ k steel	
		[kN]	γ_{timber}	[kN]	γ_{steel}
S50120120	120 x 120	200,0	$\gamma_{MT}^{(1)}$	157,0	γ_{M0}
S50120180		200,0		157,0	
S50160180	160 x 160	334,0		268,0	
S50160240		334,0		268,0	

TENSION

SHEAR

CODE	fasteners for timber		R _{1,t} k timber		R _{2/3} k timber = R _{4/5} k timber		
	type	pcs - Ø x L [mm]	[kN]	Y _{timber}	[kN]	Y _{timber}	
S50120120	HBS PLATE EVO Ø8	4 - Ø8x80	6,2	Y _{MC} ⁽²⁾	9,7	Y _{MC} ⁽²⁾	
S50120180							
S50160180	VGS EVO Ø11+HUS10A4	4 - Ø11x150 ⁽³⁾	21,6				
S50160240					20,9		

NOTES

⁽¹⁾ γ_{MT} partial coefficient of the timber.

⁽²⁾ γ_{MC} partial coefficient for connections.

⁽³⁾ Screw not compatible with post base S50120120.

GENERAL PRINCIPLES

- Characteristic values are consistent with EN 1995-1-1:2014 and in accordance with ETA-10/0422.
- Design values can be obtained from characteristic values as follows:

$$R_d = \min \left\{ \frac{R_{i,k \text{ timber}} \cdot k_{mod}}{\gamma_M}, \frac{R_{i,k \text{ steel}}}{\gamma_{Mi}} \right\}$$

The coefficients k_{mod} , γ_M and γ_{Mi} should be taken according to the current regulations used for the calculation.

The verification of the fastener-to-concrete connection must be carried out separately.

- A timber density of $\rho_k = 350 \text{ kg/m}^3$ was considered for the calculation process.
- Dimensioning and verification of timber and concrete elements must be carried out separately.

UK CONSTRUCTION PRODUCT EVALUATION

- UKTA-0836-22/6374.